(Absence of an entry indicates that data were not estimated.)

Salinity Cation Calcium Sodium Map symbol Depth Effective Soil Gypsum and soil name exchange cation reaction carbonadsorpcapacity exchange tion capacity ratio In meq/100 g meq/100 g Pct рН Pct mmhos/cm 8: Dumps-----------Pits-----\_\_\_ \_\_\_ \_\_\_ \_\_\_ \_\_\_ \_\_\_ \_\_\_ ---Udorthents----\_\_\_ \_\_\_ \_\_\_ \_\_\_ \_\_\_ \_\_\_ 5.6-7.3 5.6-7.8 Sampsel-----0 - 1015-20 Ω ------10-60 \_\_\_ \_\_\_ 18-30 0 13C: Sampsel-----5.6-7.3 0 - 1115-20 0 5.6-7.8 11-60 18-30 0 15: Ashton----0-10 5.6-7.3 0 \_\_\_ \_\_\_ \_\_\_ ---5.6-7.3 49-60 \_\_\_ 5.6-7.3 0 20B: ---Creldon-----0-14 6.0-16 4.5-7.3 0 0 0 0 4.5-6.5 14-26 26-33 16-23 0 0 0 0 13-18 3.6-5.5 0 0 0 0 33-60 \_\_\_ 20-35 4.5-6.0 0 0 0 0 20C: Creldon-----0-19 6.0-16 4.5-7.3 0 0 0 0 19-26 26-33 4.5-6.5 3.6-5.5 16-23 0 0 0 0 13-18 ---0 0 0 0 33-60 20-35 4.5-6.0 0 23F: Goss-----0-5 6.0-16 4.5-6.5 0 0 0 0 ---5-13 10-16 4.5-6.0 0 0 0 0 13-60 20-40 4.5-6.0 0 0 0 0 5.6-7.3 Verdigris-----0 - 27------0 5.6-7.3 27-60 ------\_\_\_ \_\_\_ 0 \_\_\_ 32: 0-7 8.0-14 6.1-7.3 0 0 0 0 Racket-----\_\_\_ 7-42 10-20 6.1-7.3 0 0 0 0 42-60 2.0-6.0 6.1-7.3 0 0 0 0 33: Quarles-----0-9 5.1-7.3 0 9-18 4.5-6.0 4.5-6.5 \_\_\_ \_\_\_ \_\_\_ \_\_\_ Λ \_\_\_ ---18-60 0 35: Aquents-----

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Table J2.--Chemical Properties of the Soils--Continued

Map symbol and soil name	   Depth     	Cation exchange capacity	  Effective   cation  exchange  capacity	   Soil  reaction 	  Calcium   carbon-   ate	Gypsum	Salinity	Sodium   adsorp-   tion   ratio
	   In		  meq/100 g		Pct	Pct	mmhos/cm	_
50B:	 		 	 				
Mcgirk	0-14   14-21   21-54   54-60	8.0-16   	   14-20   18-25   10-18	5.1-6.5 4.5-5.5 4.5-6.0 4.5-6.0	     	  	0 0 0	0 0 0 0
51C:								
Claiborne	0-10   10-60		 	4.5-6.0	 		0 0	
52B: Deepwater	0-11   11-48   48-60	10-16 10-22 16-22	   	   5.1-7.3   5.1-7.3   5.1-6.5	   0   0   0	0 0 0	0 0 0	   0   0
52C:	 		 	[ [				
Deepwater	0-13   13-42   42-60	10-16 10-22 16-22	   	5.1-7.3 5.1-7.3 5.1-6.5	0     0     0	0 0 0	0 0 0	0 0
53B: Mandeville	0-13   13-26   26-32   32-60	8.0-16     	     10-17   10-17 	   5.1-6.5   4.5-6.0   4.5-6.0 	0   0   0 	0 0 0 	0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
54: Moniteau	   0-14   14-49   49-60	   10-16     8.0-14	     10-15 	   5.1-6.5   4.5-6.0   4.5-6.5	     	 		
55B: Barco	0-13 13-26 26-33 33-43	   6.0-11   9.0-18   	     	   5.1-7.3   4.5-6.5 	   0   0 	0 0 	0 0 	0 0
55C: Barco	   0-9   9-30   30-60	   6.0-11   9.0-18 	     	   5.1-7.3   4.5-6.5 	0 0	0 0 	0 0 	0 0
56C: Bolivar	   0-8   8-26   26-60	   6.0-12   	     10-18 	   5.1-6.5   4.5-6.0 	0 0	0 0 	0 0 	0 0
56D: Bolivar	0-8 11-26 26-40 40-60	   6.0-12   	     10-18   	   5.1-6.5   4.5-6.0   	0 0 0	0 0 	0 0 	0 0
58: Hartwell	   0-13   13-28   28-60	   10-16   20-28   12-20	     	   5.1-7.3   5.1-6.5   5.1-7.3	   0   0   0	0 0 0	0 0 0	   0   0   0
58B2: Hartwell	   0-8   8-28   28-60	   10-16   20-28   12-20	   	   5.1-7.3   5.1-6.5   5.1-7.3	   0   0   0	0 0 0	0 0 0	   0   0

Table J2.--Chemical Properties of the Soils--Continued

Map symbol and soil name	Depth	Cation exchange capacity	  Effective   cation  exchange  capacity	   Soil  reaction   	  Calcium   carbon-   ate	Gypsum	Salinity	Sodium   adsorp-   tion   ratio
	In		<u> </u>	   pH 	Pct	Pct	mmhos/cm	-     
58B3: Hartwell	0-5 5-12 12-60	   16-22   20-28   12-20	     	   5.1-7.3   5.1-6.5   5.1-7.3	   0   0   0	0 0 0	0 0 0	0 0
60B: Barden	0-11 11-14 14-23 23-60	   8.0-16   14-18   19-30   14-20	     	5.1-7.3   4.5-6.5   4.5-7.3   4.5-7.3	   0   0   0	0 0 0 0	0 0 0	0 0 0
60B2: Barden	0-7 7-14 14-23 23-60	8.0-16   14-18   19-30   14-20	     	5.1-7.3   4.5-6.5   4.5-7.3   4.5-7.3	   0   0   0	0 0 0 0	0 0 0 0	0 0 0
63B: Union	0-7 7-27 27-42 42-60	   6.0-16   	     14-24   8.0-18   20-40	5.6-6.5   4.5-5.5   3.6-5.0   4.5-6.0	   	  	  	   
63C: Union	0-7 7-27 27-42 42-60	   6.0-16   	     14-24   8.0-18   20-40	   5.6-6.5   4.5-5.5   3.6-5.0   4.5-6.0	     	  	  	
66C: Doniphan	0-8 8-18 18-60	     	     	   4.5-6.5   3.6-5.5   3.6-5.5	   	 	0 0 0	   
66D: Doniphan	0-13 13-18 18-60	   	   	   4.5-6.5   3.6-5.5   3.6-5.5	     	 	0 0 0	
67C: Bardley	0-12 12-37 37-60	   10-16   25-40 	   	4.5-6.5 4.5-7.3	0 0	0 0 	0 0 	0 0
67E: Bardley	0-4 4-10 10-30 30-60	   13-19   13-19   25-40 	     	   4.5-6.5   4.5-6.5   4.5-7.3 	0 0 0 0 	0 0 0 	0 0 0	0 0 0 0
68C: Eldon	0-10 10-28 28-60	8.0-16 18-31 18-48	   	4.5-7.3 4.5-7.3 4.5-7.8	   0   0   0	0 0 0	0 0 0	0 0
68D: Eldon	0-15 15-28 28-60	8.0-16 18-31 18-48	   	4.5-7.3 4.5-7.3 4.5-7.8	0 0	0 0 0	0 0 0	0 0

Table J2.--Chemical Properties of the Soils--Continued

Map symbol and soil name	Depth	Cation  exchange  capacity 	Effective   cation  exchange  capacity	Soil  reaction   	Calcium   carbon-   ate 	Gypsum       	Salinity	Sodium adsorp- tion ratio
	In	meq/100 g	meq/100 g	рН	Pct	Pct	mmhos/cm	
72C: Gasconade	0-8 8-15 15-25	   15-22   15-30 	     	   6.1-7.8   6.1-7.8 	   0   0 	0   0   	0 0 	0 0
Rock Outcrop	0-60			 				
72F: Gasconade	0-3 3-14 14-25	   15-22   15-30 	   	   6.1-7.8   6.1-7.8 	0 0	0 0 1	0 0 	0 0
Rock Outcrop	0-60							
74C: Knobby	0-3 3-7 7-60	   5.0-15   5.0-15 	   	   6.6-7.8   6.6-7.8 	   0   0 	0   0   	0 0 	0 0
Rock Outcrop	0-60			 				
74F: Knobby	0-5 5-8 8-60	   5.0-15   5.0-15 	   	   6.6-7.8   6.6-7.8 	   0   0 	0   0   	0 0 	0 0
Rock Outcrop	0-60	 	 	 				
80: Osage	0-8 8-60	   16-30   16-25	     	5.1-7.3 5.6-7.8	   0   0	0   0	0 0	0 0
AED: Orthent		   	   	   	   			
W:   Water		   	   	   	   			